

Patent Abstracts of Japan

PUBLICATION NUMBER : 57140339
PUBLICATION DATE : 30-08-82

APPLICATION DATE : 24-02-81
APPLICATION NUMBER : 56025646

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INT.CL. : C03C 15/00 C03C 17/23 C03C 23/00

TITLE : REMOVING METHOD FOR METALLIC OXIDE FILM

ABSTRACT : PURPOSE: To easily obtain a substrate having a stuck metallic oxide film of a prescribed shape by coating part of a metallic oxide film of Fe oxide or the like stuck to a substrate with a synthetic resin sheet and treating the film with a heated aqueous acid soln.

CONSTITUTION: To provide electric conductivity, chromatic, decorative and mirror effects, etc. to a substrate of glass or the like a film of ≥ 1 kind of metallic oxide selected from Fe, Cr, Co, Ti, Cu, Ni, Mn, Zn, In, Al, V, Mo and W oxides or said metallic oxide and $\leq 20\text{wt}\%$ SnO is stuck to the substrate, and the desired part of the film is coated with an acid-proof synthetic resin sheet of vinyl chloride resin or the like using a thermoplastic resin such as polyvinyl alcohol or a thermosetting resin such as phenol resin as an adhesive. The film is then treated with a $\geq 4\text{wt}\%$ aqueous soln. of ≥ 1 kind of acid selected from sulfuric acid, nitric acid, hydrochloric acid and phosphoric acid or a mixture of said soln. with other acid soln. at $\geq 80^\circ\text{C}$ to dissolve and remove the uncoated part of the film. Then, a metallic oxide film of the desired shape is obtd.

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